

### Abstract

Disclosed is a process for obtaining an enzyme having a specified enzyme activity derived from a heterogeneous DNA population by screening, for the specified enzyme activity, a library of clones containing DNA from the heterogeneous DNA population which have been exposed to directed mutagenesis towards production of the specified enzyme activity. Also disclosed is a process for obtaining an enzyme having a specified enzyme activity by screening, for the specified enzyme activity, a library of clones containing DNA from a pool of DNA populations which have been exposed to directed mutagenesis in an attempt to produce in the library of clones DNA encoding an enzyme having one or more desired characteristics which can be the same or different from the specified enzyme activity.

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